

LISTING OF THE CLAIMS

1-38 (Cancelled)

39 (Previously presented) A method for providing a user-interface, comprising:

- i. receiving by a document processing system a plurality of content documents associated with respective application programs in file formats associated with the respective application programs;
- ii. deriving by the document processing system, internal representations of the plurality of content documents, wherein the internal representations a) are in a common format other than the file formats associated with the respective application programs and b) describe the respective documents as collections of objects and parameters defining properties of the objects within each document;
- iii. providing a tool document file, representative of a graphical tool that performs a user interface function in relation to content documents received from a plurality of application programs, wherein the document tool file stores information about the graphical tool in the internal representation used to describe the plurality of content documents;
- iv. providing tool code associated with the tool document file;
- v. generating a screen document for display that is an aggregation of the internal representation of at least one of the plurality of content documents and internal representation of the graphical tool; and
- vi. rendering by the document processing system the screen document to create a single output display that integrates the at least one content document with the graphical tool that performs the user interface function.

40-41 (Cancelled)

42 (Previously Presented) A method according to claim 39, wherein the tool code comprises a script.

43 (Previously presented) A method according to any one of claims 39 and 42, wherein the graphical tool is selected from the group of a user interface control tool and window/desktop furniture.

44 (Previously presented) A method according to any one of claims 39 and 42, wherein the graphical tool is selected from the group consisting of a button, an icon, a pull down menu, a switch, and a slider control.

45 (Previously presented) A method according to any one of claims 39 and 42, wherein the graphical tool is selected from the group consisting of a magnifying glass, a ruler, a text entry cursor, a thumbnail navigation control, and a query tool.

46 (Previously presented) A method according to claim 39, wherein:

- i. the tool code associated with the tool document file, upon execution, processes the internal representation of the at least one content document to create a derived document which forms part of the screen document;
- ii. the derived document presents the content in a manner that achieves a display effect associated with the tool; and
- iii. the display effect is portrayed in a rendered screen document.

47 (Previously presented) A method according to claim 46, wherein the derived document changes according to a contextual relationship among the graphical tool, the content document, and an application program in which the tool document file is used.

48 (Previously presented) A method according to claim 47, wherein the contextual relationship is selected from the group consisting of a relative rendered position of the graphical tool and rendered portions of the content document, a time at which the graphical tool acts on rendered portions of the content document, and a state of rendered portions of the content document.

49 (Previously presented) A method according to claim 39, further comprising:

- i. providing a means to move the graphical tool to a selected position over a portion of the rendered content document, and
- ii. processing the portion of the content document file associated with the selected position with the tool code.

50 (Previously presented) A method according to claim 39, wherein the tool code comprises code for creating a display effect by altering at least one of the objects and parameters of the internal representation of at least one of the content documents.

51 (Previously presented) A method according to claim 50, wherein altering at least one of the objects and parameters comprises modifying the internal representation of the at least one content document to add content to the screen document.

52 (Previously Presented) A method according to claim 39, wherein rendering the screen document comprises generating a view of the screen document expressed in terms of primitive figures and parameters.

53 (Previously Presented) A method according to claim 52 wherein the primitive figures are defined in terms of a bounding box, a shape, a transparency, and a data content of the figure.

54 (Previously presented) A method according to claim 52, wherein the tool code, upon execution, processes the generated view of the screen document to create a display effect by altering the parameters of the primitive figures that make up the view of the screen document.

55 (Previously presented) A method according to claim 54 wherein altering the parameters of the primitive figures comprises altering parameters selected from the group consisting essentially of a scale, a transparency, and a color of selected primitive figures within the screen document.

56 (Previously presented) A method according to claim 54 wherein processing the generated view of the screen document comprises clipping selected primitive figures within the view of the screen document to a clipping area associated with the tool document file.

57 (Previously Presented) A method according to claim 39 wherein rendering the screen document comprises receiving a view control input that defines a viewing context and related temporal parameters to generate a context-specific view of the screen document.

58 (Previously Presented) A method according to claim 57 wherein the context-specific view is selected from the group consisting of all of the document objects within the screen document, a whole document object, parts of one or some of the document objects within the screen document.

59 (Previously Presented) The method according to claim 57 wherein the view control input is interpreted to determine which parts of the internal representation of the screen document are required for the context-specific view.

60 (Previously Presented) A method according to claim 57 wherein the view control input is interpreted to determine how, when and for how long the view is to be displayed.

61 (Previously presented) A method according to claim 39 wherein:

- i. the graphical tool is included in the screen document in response to the activation of a tool button by a user, and
- ii. activation of the tool button by the user results in processing of the tool document file to include the graphical tool within the screen document.

62 (Previously presented) A method according to claim 61, wherein:

- i. the tool code associated with the tool document file, upon execution, processes at least one of the content documents or the tool document file to create a derived document which forms part of the screen document,
- ii. the derived document presents at least a portion of the at least one content document in a manner that achieves a display effect associated with the tool, and
- iii. the display effect is portrayed in the rendered screen document when the user activates the tool button.

63 (Previously presented) A method according to claim 39 wherein the objects of the internal representations of the content documents and the tool document file are selected from the group consisting essentially of a text object, a bitmap graphic object, and a vector graphic object.

64 (Previously presented) A method according to claim 63, wherein at least one of the objects are animated.

65 (Previously presented) A method according to claim 63, wherein at least one of the object are not animated.

66 (Previously presented) A method according to claim 63, wherein at least one of the object are two-dimensional.

67 (Previously presented) A method according to claim 63, wherein at least one of the object are three-dimensional.

68 (Previously presented) A method according to claim 39, wherein the objects are selected from the group consisting of a video object, an audio object, and an interactive object.

69 (Previously presented) A method according to claim 39, wherein the objects are selected from the group consisting of a button, an icon, a pull down menu, a switch, and a slider control.

70 (Previously presented) The method of claim 39, wherein deriving the internal representations of the plurality of content documents comprises selecting the objects used to describe the respective content documents from a common library of document objects.